

Nadio and Allancahilida	Application No.	Applicant(s)					
	09/884,091	AKIYAMA ET AL.	ET AL.				
Notice of Allowability	Examiner	Art Unit					
	Betsy L. Deppe	2637					
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS				
1. A This communication is responsive to the communications to	iled 4/8/05 and 6/6/05.						
2. The allowed claim(s) is/are 1-13 and 15.							
3. The drawings filed on are accepted by the Examiner	.						
 4. Acknowledgment is made of a claim for foreign priority una a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM 	been received. been received in Application No cuments have been received in this r	national stage applica					
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER'	S AMENDMENT or N	OTICE OF				
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.							
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 4/8/05,6/6/05 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal Pa 6. Interview Summary (Paper No./Mail Date 8), 7. Examiner's Amendm 8. Examiner's Statemen 9. Other	(PTO-413), e nent/Comment	ŕ				

Application/Control Number: 09/884,091 Page 2

Art Unit: 2637

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: prior art of record does not teach or suggests in combination a transmission apparatus comprised of the second modulation circuit as recited in claim 1, lines 9-14. Furthermore, prior art of record does not teach or suggests in combination a method that (a) receives a pilot signal and auxiliary signal including TMCC information and (b) displays the signal point of the pilot signal and of the auxiliary signal, as recited in claim 10, lines 5-11 and 16-20. Prior art of record also does not teach or suggests in combination a transmission unit that assigns the pilot signal and the auxiliary signal on different positions on the I-Q complex plane as recited in claim 15, lines 3-9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. The drawings were received on April 8, 2005. Figures 3-6 of the drawings are accepted. However, a new replacement sheet for Figure 1 is required. The new replacement sheet should incorporate the correct spelling of "AXIS" instead of showing the "AUXIS" as crossed-out.

Application/Control Number: 09/884,091 Page 3

Art Unit: 2637

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betsy L. Deppe whose telephone number is (571) 272-3054. The examiner can normally be reached on Monday, Tuesday and Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jay Patel can be reached on (571) 272 - 2988. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Betsy L. Deppe Primary Examiner Art Unit 2637



1/7

FIG.1

Q 1													
AUX													
	ं	O	ं	ं	ं	0							
	0	Ç.	ः	ं	0	O	×o	0					
	0	0	\circ	ं	0	0	0		·•				
	ं	0	0	0	ं	0	0	0	a				
	ं	ं	ं	•	0	O	O	0		•			
	ं	0	0	0	0	٥	0	0	•				
	0	0	0	0	0	O	0	ं					
	9	0	୍	୍	ं	ं	٥	\circ					
AUX													

△: SIGNAL POINT OF AUXILIARY SIGNAL

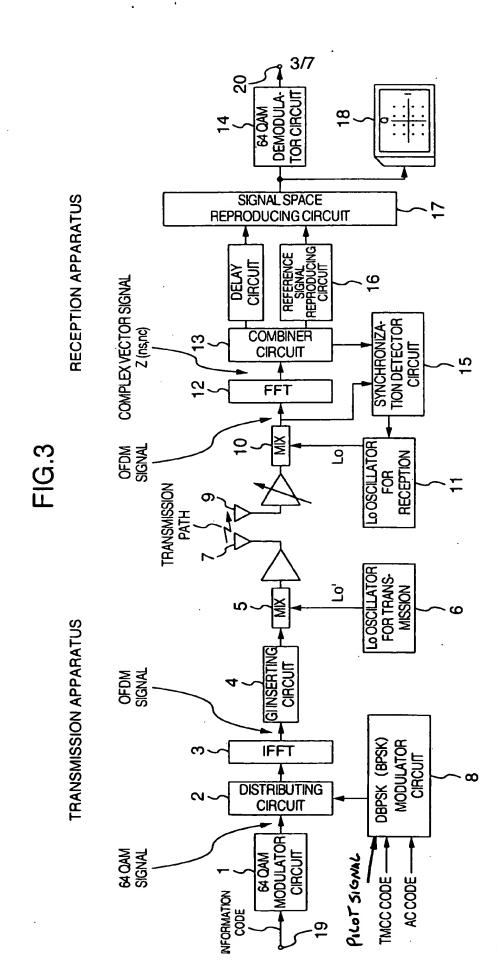
♦ : SIGNAL POINT OF PILOT SIGNAL

O: SIGNAL POINT OF RECEIVED SIGNAL

×: MOVED SIGNAL POINT OF RECEIVED SIGNAL

1:1-AUXIS- 4X15

Q: Q-AUXIS AXIS



Accepted BD Replacement Sheet

4/7

FIG.4

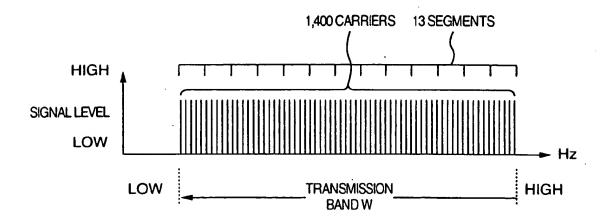


FIG.5 PRIOR ANT

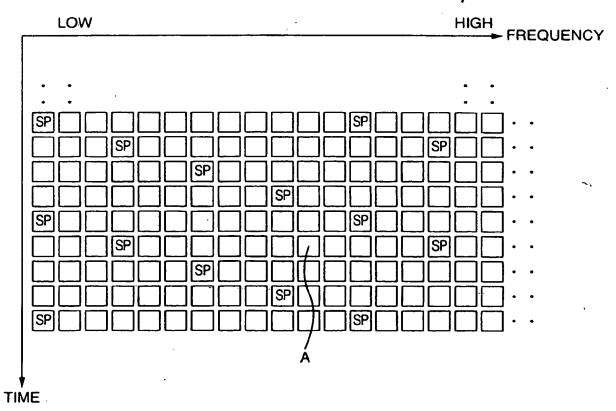


FIG.6 PRIOR ART

